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PN - JP59006367 A 19840113

TI - PREPARATION OF LINK CHAIN

- C23C8/20 ; C23C8/30 ; C23C26/00

FI - C23C8/22; C23C8/32; C25D5/10; C23C12/02; C23C28/00&B; F16G13/12&C

PA - NITSUCHI KK

IN - OOGURO AKIHIRO

AP - JP19820114399 19820630

PR - JP19820114399 19820630

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AN - 1984-045734 [08]

- Corrosion resistant linked chain prodn. - involves plating chain material then carburising, hardening, tempering etc. for improved wear resistance

 J59006367 The process comprises applying a desired plating over the surface of mother material of link chain to form corrosion resistant layer, and performing carburising or carbonitriding and hardening and tempering to form hardened layer over the corrosion resistant layer.

- The corrosion resistant layer closely adheres to the surface of the mother material of link chain, and the hardened layer improves the rupture strength and wear resistance. In an example, link chain (wire size:7.1 mm; chemical component: C 0.19%; Si 0.20%; Mn 0.79%; P 0.010%; S 0.008%; Cr 1.12%; Mo 0.24%; Fe the remainder) was Ni plated (layer thickness 10 microns), and the link chain so plated was heated in a carburising atmos., hardened, and tempered. The breaking load of the link chain so obtd. was 7.6 ton and the elongation was 16.2%.(0/2)
- CORROSION RESISTANCE LINK CHAIN PRODUCE PLATE CHAIN MATERIAL CARBURISE HARDEN TEMPER IMPROVE WEAR RESISTANCE
- PN JP59006367 A 19840113 DW198408 004pp
 - JP61031183B B 19860718 DW198633 000pp
- IC C23C8/20 ;C23C9/10 ;C23C11/14 ;C23C28/00 ;C25D5/10 ;F16G13/00

MC - M13-D M14-K

DC - M13 Q64

PA - (NICC-N) NICCHI KK

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PR - JP19820114399 19820630

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TI - PREPARATION OF LINK CHAIN

- PURPOSE:To obtain a link chain excellent in corrosion resistance and anti-wear property at low cost, by a
 method wherein a corrosion resistant metal layer is formed on the surface of the matrix material of the link chain
 and carbonitriding treatment is carried out to form a surface hardened layer.
 - CONSTITUTION:A corrosion resistant layer 2 comprising a Ni alloy or the like is formed on the surface layer part of a link chain matrix material1 used in a winder or a hanger. In the next step, carburization or carbonitriding treatment is carried out and, thereafter, tempering and annealing are carried out to form a diffusion penetration layer 3 into which the parts of a surface hardened layer4 and the corrosion resistant metal layer2 are diffused and penetrated on the surface layer part of the matrix material1 having an annealed martensite structure. By this method, the number of manufacturing processes are reduced and a link chain easy in the thickness control of the surface hardened layer 4 and excellent in corrosion resistance and anti-wear property is obtained.
- C23C9/10 ;C23C11/14

PA - NITSUCHI:KK

IN - OOGURO AKIHIRO

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